

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An x-ray apparatus ~~characterized by~~ comprising:  
a cathode which irradiates an electron beam;  
a target which is irradiated by the electron beam and generates x-rays; ~~[[and]]~~  
[a] at least one magnet portion which moves the irradiation position of the electron beam that is irradiated on the target; and  
wherein the at least one magnet portion is disposed rotatably about the axial direction of the electron beam, and the irradiation position of the electron beam is changed by rotation of the at least one magnet.

Claim 2 (Currently Amended): The x-ray apparatus according to claim 1, wherein ~~characterized in that~~ the target is disposed so as to be fixed with respect to the cathode.

Claim 3 (Currently Amended): The x-ray apparatus according to claim 2, wherein ~~characterized in that~~ the magnet portion generates a magnetic field which traverses the electron beam.

Claim 4 (Canceled).

Claim 5 (Currently Amended): The x-ray apparatus according to claim [4]1, wherein ~~characterized in that~~ the at least one magnet portion has a pair of magnets which are separated in the diameter direction of the rotation and oppose different magnetic poles.

Claim 6 (Currently Amended): The x-ray apparatus according to claim [4]1, wherein ~~characterized in that~~ the at least one magnet portion comprises first and second magnet portions are disposed so as to oppose each other and the electron beam interposed by the first and second magnet portions.

Claim 7 (Currently Amended): The x-ray apparatus according to claim 1, wherein ~~characterized in that~~ the at least one magnet portion comprises a plurality of pairs of opposing electromagnets between which the electron beam is interposed, and control means for changing the synthesized magnetic field formed by these electromagnets.

Claim 8 (Currently Amended): The x-ray apparatus according to claim 7, wherein ~~characterized in that~~ the control means controls at least one of the energizing amount and the current direction of the plurality of pairs of electromagnets.

Claim 9 (Currently Amended): The x-ray apparatus according to claim 1, wherein ~~characterized in that~~ the at least one magnet portion comprises a plurality of pairs of opposing electromagnets between which the electron beam is interposed, and

a selected pair of electromagnets is energized and the irradiation position on the target of the electron beam is controlled, and after a set time has elapsed, another set of electromagnets is energized.

Claim 10 (Currently Amended): The x-ray apparatus according to any one of claims 1 to 9, ~~characterized by~~ further comprising a plurality of focusing electrodes between the target and the cathode, and

the position of the at least one magnet portion in the axial direction of the electron beam is between the focusing electrode which is closest to the target side and the cathode.

Claim 11 (New): An x-ray apparatus comprising:

a cathode which irradiates an electron beam;

a target which is irradiated by the electron beam and generates x-rays;

a plurality of pairs of opposing electromagnets between which the electron beam is interposed and which moves the irradiation position of the electron beam that is irradiated on the target;

wherein the plurality of pairs of opposing electromagnets is disposed rotatably about the axial direction of the electron beam and the irradiation position of the electron beam is changed by rotation of the plurality of pairs of opposing electromagnets, and a selected pair of electromagnets is energized and the irradiation position on the target of the electron beam is controlled, and after a set time related to the service life of the target has elapsed, another set of electromagnets is energized.

Claim 12 (New): The x-ray apparatus according to claim 11, comprising a plurality of focusing electrodes between the target and the cathode,

wherein the position of the selected pair of electromagnets in the axial direction of the electron beam is between the focusing electrode which is closest to the target side and the cathode.